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Ordering number:EN3149

PNP/NPN Epitaxial Planar Silicon Transistors

2SB1449/2SD2198

50V/5A Switching Applications

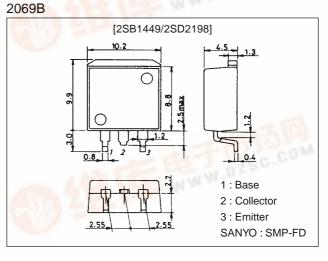
Features

- Surface mount type device making the following possible.
 - -Reduction in the number of manufacturing processes for 2SB1449/2SD2198-applied equipment.
 - -High density surface mount applications. -Small size of 2SB1449/2SD2198-applied equip-
- ment.
 Low collector-to-emitter saturation voltage.

Package Dimensions

unit:mm

W.DZSC.COM



():2SB1449

Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		(–)60	V
Collector-to-Emitter Voltage	VCEO		(–)50	V
Emitter-to-Base Voltage	VEBO		(–)6	V
Collector Current	ι _C		()5	A
Collector Current (Pulse)	ICP	and the second	(–)9	A
Collector Dissipation	PC		1.65	W
		Tc=25°C	30	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Collector Cutoff Current	ICBO	V _{CB} =(-)40V, I _E =0			(–)0.1	mA
Emitter Cutoff Current	IEBO	$V_{EB}=(-)4V, I_{C}=0$			(-)0.1	mA
DC Current Gain	h _{FE} 1	V _{CE} =(-)2V, I _C =(-)1A	70*	-51	280*	Acres
	h _{FE} 2	V _{CE} =(-)2V, I _C =(-)3A	30	1	SC-1	2
Gain-Bandwidth Product	fT	V _{CE} =(-)5V, I _C =(-)1A	in M	30		MHz
Output Capacitance	Cob	V _{CB} =(-)10V, f=1MHz	100	100		pF
				(160)		pF
* : The 2SB1449/2SD2198 are classified by 1A l	n _{FE} as follow	S: 70 0 140 100 P 200 140 S 2	20			

* : The 2SB1449/2SD2198 are classified by 1A h_{FE} as follows : 70 Q 140 100 R 200 140 S 280

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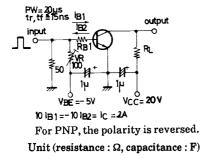
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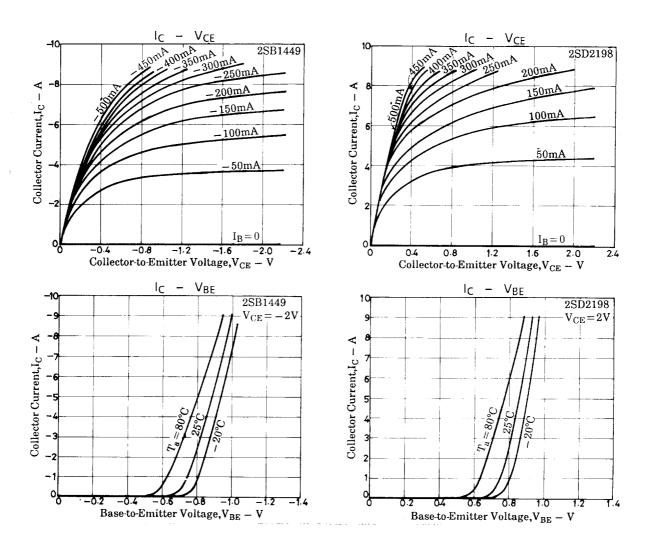
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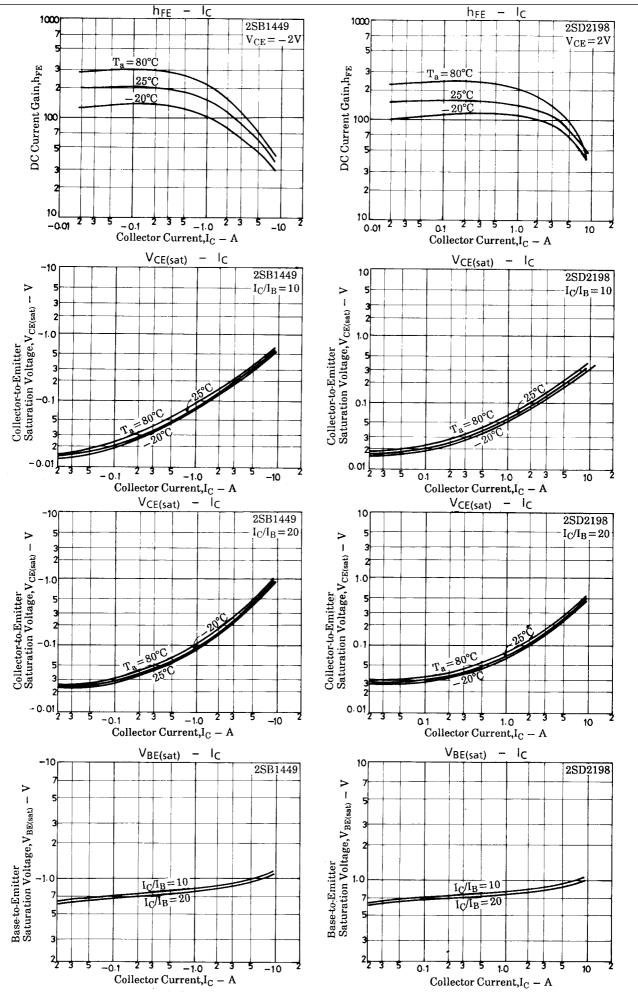
2SB1449/2SD2198

Parameter	Symbol	Conditions		Ratings		
	Symbol		min	typ	max	Unit
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =(-)3A, I _B =(-)0.3A			()0.4	V
Collector-to-Base Breakdown Voltage	V _(BR) CBO	I _C =(-)1mA, I _E =0	(–)60			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I _C =(−)1mA, R _{BE} =∞	(–)50			V
Emitter-to-Base Breakdown Voltage	V _{(BR)EBO}	I _E =(-)1mA, I _C =0	(–)6			V
Turn-ON Time	ton	See specified test circuit.		0.1		μs
Storage Time	tstg	See specified test circuit.		(0.7)		μs
				1.4		μs
Fall Time	t _f	See specified test circuit.		0.2		μs

Switching Time Test Circuit

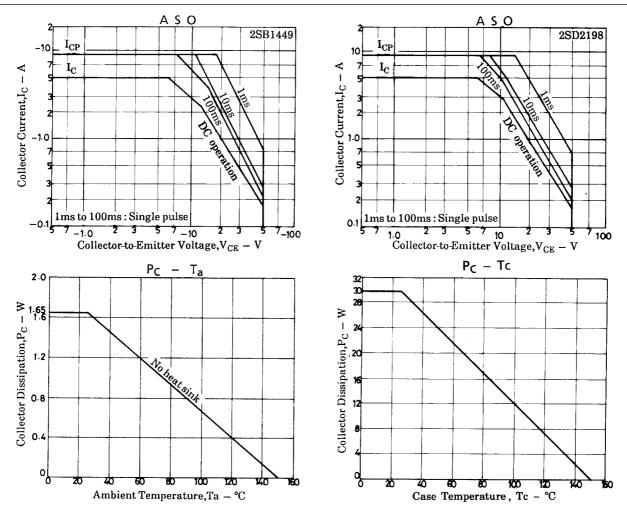






2SB1449/2SD2198

2SB1449/2SD2198



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